

Dermatoscope

Abstract

In a dermatoscope having a number of light-emitting diodes (7), which are arranged around optics (6), for indirect illumination of an examination area, an optical waveguide (1) is arranged in front of each light-emitting diode (7), the light input surface of which optical waveguide (1) faces the associated light-emitting diode (7) and on whose outer wall the light which is emitted from the light-emitting diode (7) is totally reflected toward the examination area. Instead of a number of optical waveguides (1), a single conical prism is preferably provided, whose base faces the light-emitting diodes (7) and whose cone angle is designed such that the light injected into the base surface from the light-emitting diodes (7) is totally reflected on the outer cone surface.

Figure 1